

IAP19 Rec'd PCT/PTO 0 6 MAR 2009

PTO Form 17p (01-09)

Approved for use through 02/28/2009. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FEE
Under 37 CFR 1.17(f), (g) & (h)
TRANSMITTAL

(Fees are subject to annual revision)

Send completed form to: Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

Application Number	10/570,910
Filing Date	March 3, 2006
First Named Inventor	Jat Yuen Richard Liew
Art Unit	2821
Examiner Name	Unassigned
Attorney Docket Number	ELLAC-73328

Enclosed is a petition filed under 37 CFR 1.182 that requires a processing fee (37 CFR 1.17(f), (g), or (h)). Payment of \$ 400.00 is enclosed.

This form should be included with the above-mentioned petition and faxed or mailed to the Office using the appropriate Mail Stop (e.g., Mail Stop Petition), if applicable. For transmittal of processing fees under 37 CFR 1.17(i), see form PTO/SB/17i.

Payment of Fees (small entity amounts are NOT available for the petition fees)

☒ The Commissioner is hereby authorized to charge the following fees to Deposit Account No. 062425 :
☐ petition fee under 37 CFR 1.17(f), (g) or (h) ☒ any deficiency of fees and credit of any overpayments

☒ Check in the amount of \$ 400.00 is enclosed.

☐ Payment by credit card (Form PTO-2038 or equivalent enclosed). Do not provide credit card information on this form.

Petition Fees under 37 CFR 1.17(f): Fee \$400 Fee Code 1462

For petitions filed under:

- § 1.36(a) - for revocation of a power of attorney by fewer than all applicants
- § 1.53(e) - to accord a filing date.
- § 1.57(a) - to accord a filing date.
- § 1.182 - for decision on a question not specifically provided for.
- § 1.183 - to suspend the rules.
- § 1.378(e) - for reconsideration of decision on petition refusing to accept delayed payment of maintenance fee in an expired patent.
- § 1.741(b) - to accord a filing date to an application under § 1.740 for extension of a patent term.

Petition Fees under 37 CFR 1.17(g): Fee \$200 Fee Code 1463

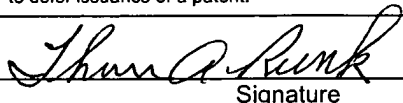
For petitions filed under:

- § 1.12 - for access to an assignment record.
- § 1.14 - for access to an application.
- § 1.47 - for filing by other than all the inventors or a person not the inventor.
- § 1.59 - for expungement of information.
- § 1.103(a) - to suspend action in an application.
- § 1.136(b) - for review of a request for extension of time when the provisions of section 1.136(a) are not available.
- § 1.295 - for review of refusal to publish a statutory invention registration.
- § 1.296 - to withdraw a request for publication of a statutory invention registration filed on or after the date the notice of intent to publish issued.
- § 1.377 - for review of decision refusing to accept and record payment of a maintenance fee filed prior to expiration of a patent.
- § 1.550(c) - for patent owner requests for extension of time in ex parte reexamination proceedings.
- § 1.956 - for patent owner requests for extension of time in inter partes reexamination proceedings.
- § 5.12 - for expedited handling of a foreign filing license.
- § 5.15 - for changing the scope of a license.
- § 5.25 - for retroactive license.

Petition Fees under 37 CFR 1.17(h): Fee \$130 Fee Code 1464

For petitions filed under:

- § 1.19(g) - to request documents in a form other than that provided in this part.
- § 1.84 - for accepting color drawings or photographs.
- § 1.91 - for entry of a model or exhibit.
- § 1.102(d) - to make an application special.
- § 1.138(c) - to expressly abandon an application to avoid publication.
- § 1.313 - to withdraw an application from issue.
- § 1.314 - to defer issuance of a patent.


Signature

Thomas A. Runk

Typed or printed name

March 2, 2009

Date

30,679

Registration No., if applicable

This collection of information is required by 37 CFR 1.17. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 5 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

03/06/2009 GFREY1 00000064 10570910

400.00 OP

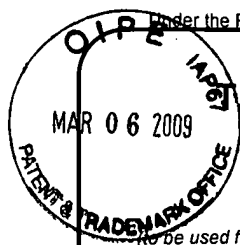
01 FC:1462

1AP19 Rec'd PCT/PTO 06 MAR 2009

PTO/SB/21 (01-09)

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TRANSMITTAL FORM

(Do not be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/570,910
Filing Date	March 3, 2006
First Named Inventor	Jat Yuen Richard Liew
Art Unit	2821
Examiner Name	Unassigned
Attorney Docket Number	ELLAC-73328

ENCLOSURES (Check all that apply)

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form
<input checked="" type="checkbox"/> Fee Attached
<input type="checkbox"/> Amendment/Reply
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/declaration(s)
<input type="checkbox"/> Extension of Time Request
<input type="checkbox"/> Express Abandonment Request
<input type="checkbox"/> Information Disclosure Statement

<input type="checkbox"/> Certified Copy of Priority Document(s)
<input type="checkbox"/> Reply to Missing Parts/ Incomplete Application
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)
<input type="checkbox"/> Licensing-related Papers
<input checked="" type="checkbox"/> Petition Under 37 CFR 1.182
<input type="checkbox"/> Petition to Convert to a Provisional Application
<input type="checkbox"/> Power of Attorney, Revocation
<input type="checkbox"/> Change of Correspondence Address
<input type="checkbox"/> Terminal Disclaimer
<input type="checkbox"/> Request for Refund
<input type="checkbox"/> CD, Number of CD(s) _____
<input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
- Exhibits A through G for Petition Under 37 CFR 1.182
- return postcard |
|--|---|--|

Remarks
CUSTOMER NUMBER 24201

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	FULWIDER PATTON LLP		
Signature	<i>Thomas A. Runk</i>		
Printed name	Thomas A. Runk		
Date	March 2, 2009	Reg. No.	30,679

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature	<i>Thomas A. Runk</i>		
Typed or printed name	Thomas A. Runk, Reg. No. 30,679	Date	March 2, 2009

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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COPY

PTO/SB/17p (01-09)

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- § 1.550(c) - for patent owner requests for extension of time in *ex parte* reexamination proceedings.
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If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ELLAC-73328

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

Unassigned

INTERNATIONAL APPLICATION NO.

PCT/SG2004/000281

INTERNATIONAL FILING DATE

September 3, 2004

PRIORITY DATE CLAIMED

September 3, 2003

TITLE OF INVENTION

DEPLOYABLE STRUCTURES

APPLICANT(S) FOR DO/EO/US

Jat Yuen Richard LIEW

Anandarivam KRISHNAPILLAI

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 740511939 US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) Unassigned	INTERNATIONAL APPLICATION NO. PCT/SG2004/000281	ATTORNEY'S DOCKET NUMBER ELLAC-73328
23. Other items or information: Acknowledgement Postcard		
The following fees have been submitted: 24. <input checked="" type="checkbox"/> Basic national fee \$300		CALCULATIONS PTO USE ONLY \$ \$300.00
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . . \$0 All other situations. \$200		\$ \$200.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB. \$400 All other situations. \$500		\$ \$400.00
TOTAL OF 24, 25 and 26 =		\$ \$900.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)
- 100 =	0 /50 =	0
		x \$250.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$ \$130.00
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	18 - 20 =	0
		x \$50.00
Independent claims	2 - 3 =	0
		x \$200.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00		\$ \$0.00
TOTAL OF ABOVE CALCULATIONS =		\$ \$1,030.00
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		\$ \$515.00
SUBTOTAL =		\$ \$515.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$ \$0.00
TOTAL NATIONAL FEE =		\$ \$515.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property		\$ \$0.00
TOTAL FEES ENCLOSED =		\$ \$515.00
Amount to be refunded:		\$
Amount to be charged:		\$

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☒ A check in the amount of \$ \$515.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-2425. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Thomas A. Runk
FULWIDER PATTON LLP
Howard Hughes Center
6060 Center Drive, Tenth Floor
Los Angeles, CA 90045

Thomas A. Runk

SIGNATURE

Thomas A. Runk

NAME

30,679

REGISTRATION NUMBER

March 3, 2006

DATE

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 on March 2, 2009.



Thomas A. Runk

Thomas A. Runk, Reg. No. 30,679

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: : Jat Yuen Richard Liew et al.
:
Application No. : 10/570,910
:
Filing Date : March 3, 2006
:
For : DEPLOYABLE STRUCTURES
:
Examiner : Unassigned
Art Unit : 2821
Confirmation No. : 7234
Docket No. : ELLAC-73328
:
Customer No. : 24201
Date: : March 2, 2009

PETITION UNDER 37 C.F.R. 1.182
FOR CORRECTED FORM PTO-1390

Mail Stop Petition
Commissioner for Patents
United States Patent And Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This is a petition to have the Office correct the Form PTO-1390 that was originally filed with the above-identified application on March 3, 2006 to reflect the correct priority PCT Application Number. A corrected Form PTO-1390 is enclosed.

STATEMENT OF THE FACTS

On March 3, 2006, applicant filed a completed Form PTO-1390 with the other application papers when entering the National Stage of the above-identified application. That original Form PTO-1390 indicated the PCT priority application as being PCT Application No. "PCT/SG2005/021882," which was in error. The Application No. that should have been entered was "PCT/SG2004/000281." Instead of entering the Application Number, applicant erroneously entered the Publication Number for the priority PCT application. A copy of that original Form PTO-1390 is enclosed as **Exhibit A**.

A copy of the front sheet of the published priority PCT application is enclosed as **Exhibit B**. The publication no. of "2005/021882" is shown and circled at the upper right of the document. This is the same number that was entered on the original Form PTO-1390. Also, the original Form PTO-1390 did list the correct filing date of the priority PCT application as "September 3, 2004" as can be seen from **Exhibit B**.

Additionally, applicant enclosed with the original filing documents copies of both the International Search Report (PCT/ISA/210) and the International Preliminary Report on Patentability (PCT/IPEA/409), copies of both of which are enclosed as **Exhibit C** and **Exhibit D** respectively. The enclosure of these documents with the original filing papers is evidenced by the "X"s of items 11. and 12. on the original Form PTO-1390. The enclosure is also shown by the postcard receipt from the Office, a copy of which is enclosed as **Exhibit E**.

Turning to **Exhibit C**, the International Search Report shows the correct PCT Application No. at the upper right on the first page as being PCT/SG2004/000281. Turning now to **Exhibit D**, the International Preliminary Report On Patentability shows the correct PCT Application No. on the first page in the second row of data, left-most cell, as being PCT/SG2004/000281.

The undersigned attorney of record discovered this PCT Application No. discrepancy on February 2, 2009 and called the PCT Help Desk. The Office attorney reviewed the Office file for the above-identified application and recommended that this petition be filed as a way of correcting the PCT Application No.

Applicant believes that the Office has not yet been able to match the above-identified U.S. application with the priority PCT application, according to a review of the PAIR System. This may be caused by the typographical error in the PCT Application No. in the original Form PTO-1390.

Applicant has electronically filed the Declaration And Power Of Attorney For Patent Application signed by all inventors, on February 28, 2009, appointing the undersigned as Attorney Of Record.

Applicant has separately filed an Assignment of rights from all inventors to the National University of Singapore, Reel 022298, Frame 0162, and has enclosed a copy of the recordation sheet as **Exhibit F**.

POINTS TO BE REVIEWED

Applicant made a typographical error on the original U.S. Form PTO-1390 by entering the Publication Number of the priority PCT application instead of the Application Number. However, it is apparent that applicant intended to enter the correct PCT Application No. PCT/SG2004/000281 because applicant enclosed two documents from that international application with the original National Stage filing papers and pointed this out to the Office by indicating their enclosure on the original Form PTO-1390 as items 11. and 12.

Further proof that applicant intended to enter the PCT Application No. of PCT/SG2004/000281 is shown by the fact the typographical error made by applicant on the original Form PTO-1390 is consistent with the correct PCT application; it is the Publication Number. Furthermore, applicant listed the correct filing date for the priority PCT application. This is not a case where applicant entered an Application Number that has no relationship whatsoever to the correct PCT application. The erroneous application number that applicant entered is an actual identifying number of the priority PCT Application PCT/SG2004/000281; it is the Publication Number.


Therefore, applicant submits that it is clear from the papers as originally filed that Applicant intended to claim priority to PCT Application No. PCT/SG2004/000281.

ACTION REQUESTED

Applicant requests that the corrected Form PTO-1390 enclosed as **Exhibit G** having the corrected PCT Application No. be substituted for the original Form PTO-1390 in this case. The only substantive change in the enclosed corrected Form PTO-1390 from the document originally filed is that the PCT application number has been corrected. Upon acceptance of this corrected Form PTO-1390, applicant requests that the Office enter the corrected priority claim for this U.S. national stage application and grant the Section 371 filing date for the above-identified application.

Respectfully submitted,
FULWIDER PATTON LLP

Dated: March 2, 2009

By: 
Thomas A. Runk,
Registration No. 30,679

TAR:njw

Enclosures: Exhibit A - Original Form PTO-1390, submitted on March 3, 2006
Exhibit B - Published Priority International Application Front Page
Exhibit C - Intl. Search Report (PCT/ISA/210)
Exhibit D - Intl. Preliminary Report On Patentability (PCT/IPEA/409)
Exhibit E - Postcard Receipt
Exhibit F - Assignment Recordation Sheet
Exhibit G - Corrected Form PTO-1390

Howard Hughes Center
6060 Center Drive, Tenth Floor
Los Angeles, CA 90045
Telephone: (310) 824-5555
Facsimile: (310) 824-9696
Customer No. 24201
325805.1

EXHIBIT A

TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ELLAC-73328

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

Unassigned

INTERNATIONAL APPLICATION NO.
PCT/SG2005/021882INTERNATIONAL FILING DATE
September 3, 2004PRIORITY DATE CLAIMED
September 3, 2003TITLE OF INVENTION
DEPLOYABLE STRUCTURES

APPLICANT(S) FOR DO/EO/US

Jat Yuen Richard LIEW

Anandarivam KRISHNAPILLAI

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☒ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 740511939 US

EXHIBIT B

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/021882 A1

(51) International Patent Classification⁷: **E04B 1/343**

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON**
(SINGAPORE) PTE LTD; P.O. Box 1531, Robinson
Road Post Office, Singapore, 903031 (SG).

(21) International Application Number:
PCT/SG2004/000281

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
3 September 2004 (03.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/499,848 3 September 2003 (03.09.2003) US

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): **NATIONAL UNIVERSITY OF SINGAPORE** [SG/SG];
10 Kent Ridge Crescent, Singapore, 119260 (SG).

(72) Inventors; and

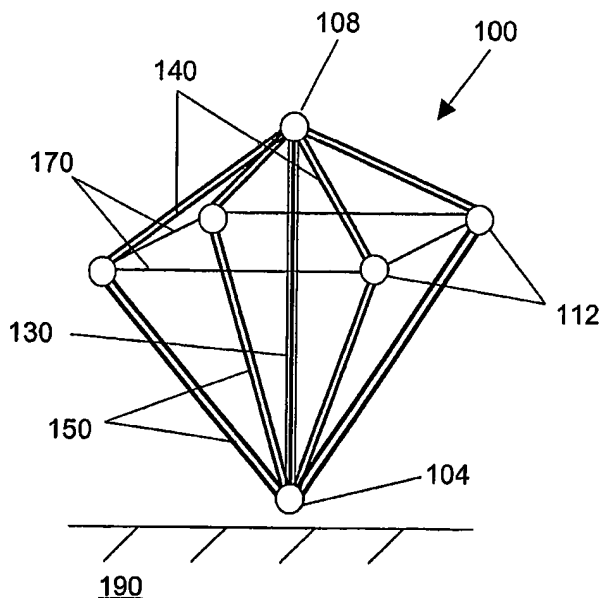
(75) Inventors/Applicants (*for US only*): **LIEW, Jat Yuen, Richard** [SG/SG]; c/o National University Of Singapore, Department of Civil Engineering, BLK E1A, #05-13, 1 Engineering Drive 2, Singapore, 117576 (SG). **KRISHNAPILLAI, Anandasivam** [LK/SG]; c/o National University Of Singapore, Department of Architecture, 4 Architecture Drive, Singapore, 117566 (SG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DEPLOYABLE STRUCTURES**



(57) Abstract: A deployable structure (100) comprising a plurality of hingeably connected members, a first hinge element (108) and a second hinge element (104), wherein the two members of each pair of hingeably connected members are connected to the first and the second hinge elements respectively, and wherein the first hinge element (108) is capable of being stabilized for facilitating stabilization of the deployable structure (100) into a deployed state.

EXHIBIT C

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SG2004/000281

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: E04B 1/343

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT: E04B 1/343, 1/19, 1/19, E04C 3/38, 3/40, 3/40 and (hinge+ or pivot+ or fold+) and (pair+ or two+ or plurality or multiple) and member+ and (deploy+ or collapse+ or transport+ or store+)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5701713 A (SILVER) 30 December 1997 See whole document	1, 12
X	FR 2671601 A1 (SOCIETE D'EXPLOITATION DES ETABLISSEMENTS MICHEL GUINAUDEAU) 17 July 1992 See whole document	1, 12
X	US 5819492 A (KONICEK) 13 October 1998 See whole document	1, 12
X	US 4574535 A (PABSCH) 11 March 1986 See whole document	1, 12

☐ Further documents are listed in the continuation of Box C ☒ See patent family annex

* "A" Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	* "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 8 October 2004	Date of mailing of the international search report 13 OCT 2004
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized officer: BARRY STEPHENS Telephone No : (02) 6283 2106

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SG2004/000281

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
US	5701713	WO	99/19575
FR	2671601	WO	94/01631
US	5819492	NONE	
US	4574535	EP	19851023
		DE	34142220

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

EXHIBIT D

**PATENT COOPERATION TREATY
PCT**

CONFIRMATION

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 10104SG219MH	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No: PCT/SG2004/000281	International filing date (<i>day/month/year</i>) 3 September 2004	Priority date (<i>day/month/year</i>) 3 September 2003
International Patent Classification (IPC) or national classification and IPC Int. Cl.⁷ E04B 1/343, 1/19, F16S 3/00		
Applicant NATIONAL UNIVERSITY OF SINGAPORE et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of **3** sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (*sent to the applicant and to the International Bureau*) a total of **6** sheets, as follows:


☒ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or table related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/> Box No. I	Basis of the report
<input type="checkbox"/> Box No. II	Priority
<input type="checkbox"/> Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/> Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/> Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/> Box No. VI	Certain documents cited
<input type="checkbox"/> Box No. VII	Certain defects in the international application
<input type="checkbox"/> Box No. VIII	Certain observations on the international application

Date of submission of the demand 10 March 2005	Date of completion of the report 18 October 2005
Name and mailing address of the IPEA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929	Authorized Officer DAVID LEE  Telephone No. (02) 6283 2107

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SG2004/000281

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1 (b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 4-10 as originally filed/furnished
- pages 1-3 received by this Authority on 20 September 2005 with the letter of 20 September 2005.
- pages* received by this Authority on with the letter of
- ☒ the claims:
- pages as originally filed/furnished
- pages* as amended (together with any statement) under Article 19
- Pages 11-13 received by this Authority on 20 September 2005 with the letter of 20 September 2005
- pages* received by this Authority on with the letter of
- ☒ the drawings:
- pages 1-7 as originally filed/furnished
- pages* received by this Authority on with the letter of
- pages* received by this Authority on with the letter of
- ☐ a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing *(specify)*:
 - ☐ any table(s) related to the sequence listing *(specify)*:
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages
 - ☐ the claims, Nos.
 - ☐ the drawings, sheets/figs
 - ☐ the sequence listing *(specify)*:
 - ☐ any table(s) related to the sequence listing *(specify)*:

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SG2004/000281

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-13	YES
	Claims	NO
Inventive step (IS)	Claims 1-13	YES
	Claims	NO
Industrial applicability (IA)	Claims 1-13	YES
	Claims	NO

2. Citations and explanations (Rule 70.7)

DE 20209770 U (KUO) 26 September 2002
GB 2063959 A (ERNO RAUMFAHRTTECHNIK GmbH) 10 June 1981
DE 10219709 A (MULLER) 7 November 2002
DE 3718052 A (KNAUER) 8 December 1988
EP 777022 A (SHINA) 4 June 1997
EP 390149 B (FUJI JUKOGYO KK) 10 August 1994
DE 3731178 A (KNAUER) 30 March 1989

Novelty & Inventive step - Claims 1 - 13

The citations all disclose collapsible structural assemblies that have multiple members, multiple hinges connected to each member and a variety of collapsible and locking mechanisms. However, none disclose a structure with all the features of claims 1 or 11. The specific features of the central element being detachable and a hinge element being stabilised when attached to the central member is not disclosed in the citations, nor would it be inferred or necessarily developed from any citation.

Hence, claims 1-13 are novel and have an inventive step.

EXHIBIT E

Client ID/Matter No.: ELLAC 73328

Date Mailed: March 3, 2006

Applicant: LIEW, JAT YUEN RICHARD, ET AL.

PCT Serial No. PCT/SG2005/021882

Int'l Filing Date: ~~3 March 2004~~ 3 September 2004

New National Phase Application

EXPRESS MAIL LABEL No.: EV 740511939 US

Title: **DEPLOYABLE STRUCTURES**

Documents enclosed:

1. Utility Patent Application Transmittal (PTO/SB/05) – in duplicate
2. Specification (14 sheets)
3. Claims (3 sheets)
4. Abstract (1 sheet)
5. Formal Drawings (7 sheets)
6. Preliminary Amendment (5 sheets)
7. Copy of International Search Report
8. Copy of International Preliminary Report
9. Transmittal (PTO-1390)
10. Check for \$515.00

The U.S. Patent and Trademark Office Mail Room stamp hereon acknowledges receipt of the items indicated above on the date shown.

100397 TAR/psm

IAP6 Rec'd PCT/PTO 03 MAR 2006

EXHIBIT F

THOMAS A. RUNK COMPANY:FULWIDER PATTON LLP

**UNITED STATES PATENT AND TRADEMARK OFFICE**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

500788709A

FEBRUARY 24, 2009

PTAS

THOMAS A. RUNK
FULWIDER PATTON LLP
6060 CENTER DRIVE, TENTH FLOOR
LOS ANGELES, CA 90045UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENTTHE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER
REFERENCED BELOW.PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350.
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,
MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 02/23/2009

REEL/FRAME: 022298/0162

NUMBER OF PAGES: 4

BRIEF: NUNC PRO TUNC ASSIGNMENT (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: ELLAC-73328

ASSIGNOR:

LIEW, JAT YUEN RICHARD

DOC DATE: 09/04/2008

ASSIGNOR:

KRISHNAPILLAI, ANANDASIVAM

DOC DATE: 09/04/2008

ASSIGNEE:

NATIONAL UNIVERSITY OF SINGAPORE
10 KENT RIDGE CRESCENT
SINGAPORE, SINGAPORE 119260

SERIAL NUMBER: 60499848

FILING DATE: 09/03/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: RAPIDLY ERECTABLE DEPLOYABLE SPACE FRAMES

EXHIBIT G